

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1(Previously Presented). A compositionally uniform nanomaterial comprising chalcogenide with aspect ratio greater than 2 and less than 1,000,000.

2(Original). The nanomaterial of claim 1 wherein the nanomaterial is non-stoichiometric.

3(Original). The nanomaterial of claim 1 wherein the nanomaterial is stoichiometric.

4(Withdrawn). A metallic nanomaterial with aspect ratio greater than 2 and less than 1,000,000.

5(Original). A product comprising nanomaterial of claim 1.

6(Withdrawn). The metallic nanomaterial of claim 4 wherein the nanomaterial comprises an element selected from the group: silver, gold, platinum, palladium, ruthenium, copper, tantalum, niobium, indium and rare earth.

7(Withdrawn). A product comprising nanomaterial of claim 4.

8(Previously Presented). An inorganic nanomaterial comprising nitrogen with aspect ratio greater than 2 and less than 1,000,000.

9(Original). A product comprising nanomaterial of claim 8.

10(Previously Presented). An non-stoichiometric nanomaterial comprising oxygen wherein the nanomaterial has an aspect ratio greater than 2 and less than 1,000,000.

11(Original). A product comprising nanomaterial of claim 10.

12(Previously Presented). An inorganic nanomaterial comprising phosphorus with aspect ratio greater than 2 and less than 1,000,000.

13(Original). A product comprising nanomaterial of claim 12.

14(Previously Presented). A polymeric nanomaterial with aspect ratio greater than 2 and less than 1,000,000.

15(Original). A product comprising nanomaterial of claim 14.

16(Original). A non-oxide nanomaterial with plate like morphology.

17(Original). The non-oxide nanomaterial of claim 16 wherein the nanomaterial is non-stoichiometric.

18(Original). A product comprising the nanomaterial of claim 16.

19(Currently Amended). A nanomaterial with faceted morphology with aspect ratio greater than 2 and less than 1,000,000.

20(Original). A product comprising the nanomaterial of claim 19.

21(Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises sulfur.

22(Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises selenium.

23(Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises tellurium.

24(Withdrawn). The nanomaterial of claim 4 wherein the nanomaterial comprises two or more elements.

25(Withdrawn). The nanomaterial of claim 8 wherein the nanomaterial comprises three or more elements.

26(Withdrawn). The nanomaterial of claim 10 wherein the nanomaterial comprises three or more elements.

27(Withdrawn). The nanomaterial of claim 12 wherein the nanomaterial comprises three or more elements.

28(Withdrawn). The nanomaterial of claim 1 wherein the surface of the nanomaterial has been reacted with a precursor.

29(Withdrawn). The nanomaterial of claim 4 wherein the surface of the nanomaterial has been reacted with a precursor.

30(Withdrawn). The nanomaterial of claim 8 wherein the surface of the nanomaterial has been reacted with a precursor.

31(Withdrawn). The nanomaterial of claim 10 wherein the surface of the nanomaterial has been reacted with a precursor.

32(Withdrawn). The nanomaterial of claim 12 wherein the surface of the nanomaterial has been reacted with a precursor.

33(New). A compositionally uniform nanomaterial comprising chalcogenide with aspect ratio greater than 2 and less than 25.

34(New). A product comprising nanomaterial of claim 33.

35(New). An inorganic nanomaterial comprising nitrogen with aspect ratio greater than 2 and less than 25.

36(New). A product comprising nanomaterial of claim 35.

37(New). A non-stoichiometric nanomaterial comprising oxygen wherein the nanomaterial has an aspect ratio greater than 2 and less than 25.

38(New). A product comprising nanomaterial of claim 37.

39(New). An inorganic nanomaterial comprising phosphorus with aspect ratio greater than 2 and less than 25.

40(New). A product comprising nanomaterial of claim 39.

41(New). A polymeric nanomaterial with aspect ratio greater than 2 and less than 25.

42(New). A product comprising nanomaterial of claim 41.

43(New). A nanomaterial with faceted morphology with aspect ratio greater than 2 and less than 25.

44(New). A product comprising the nanomaterial of claim 43.